

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

Applicant: Jae-Hyun Ryou et al.

Serial No.: New Application

Examiner: unknown

Filing Date: June 27, 2003

Group Art: unknown

For: VCSEL HAVING THERMAL MANAGEMENT

Docket No.: H0004788 (1139.1138101)

TRANSMITTAL SHEET

Mail Stop Patent Application
Assistant Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

CERTIFICATE UNDER 37 C.F.R. 1.10: The undersigned hereby certifies that this paper or papers, as described herein, are being deposited in the United States Postal Service, "Express Mail Post Office to Addressee" having an Express Mail mailing label number of: EV333851539US, in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, on this 27th day of June 2003.

By Lynn Thompson
Lynn Thompson

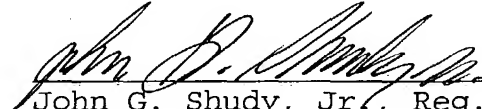
We are transmitting herewith the attached Patent Application including the following:

- [X] 30 sheets of specification.
- [X] 26 claims.
- [X] 1 sheet of Abstract.
- [X] 12 sheets of informal drawings.
- [X] Executed Declaration and Power of Attorney.
- [X] An Assignment of the invention to Honeywell International Inc. is being filed contemporaneous with this patent application.

CLAIMS AS FILED						
	(1)	(2)	SMALL ENTITY		OTHER	
FOR:	# FILED	# EXTRA	Rate	Fee	Rate	Fee
BASIC FEE				\$370		\$750
TOTAL CLAIMS	26-20 =	6	x9=	\$	x18=	\$108
INDEPENDENT CLAIMS	5-3 =	2	x42=	\$	x84=	\$168
() MULTIPLE DEPENDENT CLAIM PRESENTED			+140=	\$	+280=	\$0
TOTAL			\$			\$1026.00



- [X] A copy of Fee Transmittal For FY 2003 authorizing payment of \$1066.00 (\$750 filing fee) (\$276 claims) (\$40 recordation fee) to be deducted from Honeywell Deposit Account No. 01-1125.
- [X] Please charge any deficiencies or credit any overpayment in the enclosed fees to Deposit Account No. 01-1125.


John G. Shudy, Jr., Reg. No. 31,214
CROMPTON, SEAGER & TUFTE, LLC
1221 Nicollet Avenue, Suite 800
Minneapolis, Minnesota 55403-2420
Telephone: (612) 677-9050
Facsimile: (612) 359-9349

**FEE TRANSMITTAL
For FY 2003**

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27.**TOTAL AMOUNT OF PAYMENT** \$1066.00**COMPLETE IF KNOWN**

Application No.	New
Filing Date	June 27, 2003
First Named Inventor	Jae-Hyun Ryou et al.
Group Art Unit	Not assigned
Examiner Name	Not assigned
Attorney Docket No.	H0004788 (1139.1138101)

METHOD OF PAYMENT (check all that apply)☐ Check ☐ Credit card ☐ Money Order ☐ Other☒ Deposit AccountDeposit Account Number 01-1125Deposit Account Name Moneywell International IncThe Commissioner is hereby authorized to, (check all that apply)
☒ Charge fee(s) indicated below ☒ Credit any overpayment☐ Charge any additional fee(s) during the pendency of this application☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee \$	Fee Code	Fee \$		
1001	750	2001	375	Utility Filing Fee	750
1002	330	2002	165	Design Filing Fee	
1003	520	2003	260	Plant Filing Fee	
1004	750	2004	375	Reissue Filing Fee	
1005	180	2005	90	Provisional Filing Fee	
SUBTOTAL (1)					\$750.00

2. EXTRA CLAIM FEES

Total Claims	26	- 20 =	6	Fee from below	18.00	Fee Paid	18.00
Independent Claims	5	- 5 =	0	Fee from below	84.00	Fee Paid	84.00
Multiple Dependent Claims		- 0 =	0	Fee from below	240.00	Fee Paid	240.00

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee \$	Fee Code	Fee \$		
1202	18	2202	9	Claims in excess of 20	
1201	84	2201	42	Independent claims in excess of 3	
1203	280	2203	140	Multiple dependent claim	
1204	84	2204	42	Reissue independent claims over original patent	
1205	18	2205	9	Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)					\$276.00

*number previously paid, if greater, see above for Reissues

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee \$	Fee Code	Fee \$		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	2053	130	Non-English specification	
1812	2,520	2812	2,250	For filing a request for ex parte reexamination	
1804	920	2804	920	Requesting publication of SIR prior to Examiner action	
1805	1,840	2805	1,840	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	410	2252	205	Extension for reply within second month	
1253	930	2253	465	Extension for reply within third month	
1254	1,450	2254	725	Extension for reply within fourth month	
1255	1,970	2255	985	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	2451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,300	2453	650	Petition to revive - unintentional	
1501	1,300	2501	650	Utility issue fee (or reissue)	
1502	470	2502	235	Design issue fee	
1503	630	2503	315	Plant issue fee	
1460	130	2460	130	Petitions to the Commissioner	
1807	50	2807	50	Processing fee under 37 CFR 1.17(g)	
1806	180	2806	180	Submission of Information Disclosure Statement	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40
1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b))	
1801	750	2801	375	Request for Continued Examination (RCE)	
1802	900	2802	900	Request for expedited examination of a design application	
1504	300	2504	300	Publication fee	

Other fee (specify)

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

\$ 40.00

SUBMITTED BYName (Print / Type) Andrew A. AbeytaSignature Registration No.
(Attorney/Agent)

39,582

Complete (if applicable)Telephone 602-313-3345Date 6-26-03

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C., 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC, 20231.